In the Claims:

Please amend the claims as follows:

Please cancel claims 2-16, 18, and 20-25 without prejudice.

Please add new claims 26 to 164 as follows:

- 26. (New) A method of treating an immune system disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues 1 to 285 of SEQ ID NO:2; and
- (b) the amino acid sequence of amino acid residues 72 to 285 of SEQ ID NO:2.
- 27. (New) The method of claim 26 wherein the protein consists of amino acid sequence (a).
- 28. (New) The method of claim 26 wherein the protein consists of amino acid sequence (b).
- 29. (New) The method of claim 26 wherein the antibody or portion thereof is a monoclonal antibody.
- 30. (New) The method of claim 26 wherein the antibody or portion thereof is a polyclonal antibody.
- 31. (New) The method of claim 26 wherein the antibody or portion thereof is a Fab fragment.
- 32. (New) The method of claim 26 wherein the antibody or portion thereof is labeled.

- 33. (New) The method claim 32 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin
- 34. (New) The method of claim 33 wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) $^{121}I;$
 - (c) ^{131}I ;
 - (d) 112In; and
 - (e) ^{99m}Tc.
- 35. (New) The method of claim 26 wherein the immune system disease or disorder is an inflammatory disease or disorder.
- 36. (New) The method of claim 26 wherein the immune system disease or disorder is a leukemia.
- 37. (New) The method of claim 26 wherein the immune system disease or disorder is a tumor.
 - 38. (New) The method of claim 37 wherein the tumor is metastatic.

- 39. (New) A method of treating an immune system disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues n to 285 of SEQ ID NO:2, where n is an integer in the range of 2-190;
- (b) the amino acid sequence of amino acid residues 1 to m of SEQ ID NO:2, where m is an integer in the range of 274 to 284; and
- (c) the amino acid sequence of amino acid residues n to m of SEQ ID NO:2, where n is an integer in the range of 2-190 and m is an integer in the range of 274-284.
- 40. (New) The method of claim 39 wherein the protein consists of amino acid sequence (a).
- 41. (New) The method of claim 39 wherein the protein consists of amino acid sequence (b).
- 42. (New) The method of claim 39 wherein the protein consists of amino acid sequence (c).
- 43. (New) The method of claim 39 wherein the antibody or portion thereof is a monoclonal antibody.
- 44. (New) The method of claim 39 wherein the antibody or portion thereof is a polyclonal antibody.
- 45. (New) The method of claim 39 wherein the antibody or portion thereof is a Fab fragment.
- 46. (New) The method of claim 39 wherein the antibody or portion thereof is labeled.

- 47. (New) The method claim 46 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin
- 48. (New) The method of claim 47 wherein the label is a radioisotope selected from the group consisting of:
 - (a) 125I;
 - (b) $^{121}I;$
 - (c) ^{131}I ;
 - (d) 112 In; and
 - (e) ^{99m}Tc.
- 49. (New) The method of claim 39 wherein the immune system disease or disorder is an inflammatory disease or disorder.
- 50. (New) The method of claim 39 wherein the immune system disease or disorder is a leukemia.
- 51. (New) The method of claim 39 wherein the immune system disease or disorder is a tumor.
 - 52. (New) The method of claim 51 wherein the tumor is metastatic.
- 53. (New) A method of treating an immune system disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.
- 54. (New) The method of claim 53 wherein the antibody or portion thereof is a monoclonal antibody.

- The method of claim 53 wherein the antibody or portion thereof is a 55. polyclonal antibody.
- 56. (New) The method of claim 53 wherein the antibody or portion thereof is a Fab fragment.
- (New) The method of claim 53 wherein the antibody or portion thereof is 57. labeled.
- (New) The method of claim 57 wherein the label is selected from the group 58. consisting of:
 - (a) an enzyme label;
 - a radioisotope; (b)
 - a fluorescent label; and (c)
 - (d) biotin.
- 59. (New) The method of claim 58 wherein the label is a radioisotope selected from the group consisting of:
 - ¹²⁵I: (a)
 - ¹²¹I; (b)
 - ¹³¹I: (c)
 - ¹¹²In; and (d)
 - ^{99т}Тс. (e)
- (New) The method of claim 53 wherein the immune system disease or 60. disorder is an inflammatory disease or disorder.
- (New) The method of claim 53 wherein the immune system disease or 61. disorder is a leukemia.
- 62. (New) The method of claim 53 wherein the immune system disease or disorder is a tumor.

- 63. (New) The method of claim 62 wherein the tumor is metastatic.
- 64. (New) A method of treating an autoimmune disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues 1 to 285 of SEQ ID NO:2; and
- (b) the amino acid sequence of amino acid residues 72 to 285 of SEQ ID NO:2.
- 65. (New) The method of claim 64 wherein the protein consists of amino acid sequence (a).
- 66. (New) The method of claim 64 wherein the protein consists of amino acid sequence (b).
- 67. (New) The method of claim 64 wherein the antibody or portion thereof is a monoclonal antibody.
- 68. (New) The method of claim 64 wherein the antibody or portion thereof is a polyclonal antibody.
- 69. (New) The method of claim 64 wherein the antibody or portion thereof is a Fab fragment.
- 70. (New) The method of claim 64 wherein the antibody or portion thereof is labeled.

- 71. (New) The method of claim 70 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radidisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 72. (New) The method of claim 71 wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) 121I;
 - (c) $^{131}I;$
 - (d) ¹¹²In; and
 - (e) ^{99m}Tc.
- 73. (New) The method of claim 64 wherein the autoimmune disease or disorder is rheumatoid arthritis.
- 74. (New) A method of treating an autoimmune disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues n to 285 of SEQ ID NO:2, where n is an integer in the range of 2-190;
- (b) the amino acid sequence of amino acid residues 1 to m of SEQ ID NO:2, where m is an integer in the range of 274 to 284; and
- (c) the amino acid sequence of amino acid residues n to m of SEQ ID NO:2, where n is an integer in the range of 2-190 and m is an integer in the range of 274-284.
- 75. (New) The method of claim 74 wherein the protein consists of amino acid sequence (a).

- 76. (New) The method of claim 74 wherein the protein consists of amino acid sequence (b).
- 77. (New) The method of claim 74 wherein the protein consists of amino acid sequence (c).
- 78. (New) The method of claim 74 wherein the antibody or portion thereof is a monoclonal antibody.
- 79. (New) The method of claim 74 wherein the antibody or portion thereof is a polyclonal antibody.
- 80. (New) The method of claim 74 wherein the antibody or portion thereof is a Fab fragment.
- 81. (New) The method of claim 74 wherein the antibody or portion thereof is labeled.
- 82. (New) The method of claim 81 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 83. (New) The method of claim 82 wherein the label is a radioisotope selected from the group consisting of:
 - (a) ^{125}I ;
 - (b) $^{121}I;$
 - (c) $^{131}I;$
 - (d) 112In; and
 - (e) ^{99m}Tc.



- 84. (New) The method of claim 74 wherein the autoimmune disease or disorder is rheumatoid arthritis.
- 85. (New) A method of treating an autoimmune system disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.
- 86. (New) The method of claim 85 wherein the antibody or portion thereof is a monoclonal antibody.
- 87. (New) The method of claim 85 wherein the antibody or portion thereof is a polyclonal antibody.
- 88. (New) The method of claim 85 wherein the antibody or portion thereof is a Fab fragment.
- 89. (New) The method of claim 85 wherein the antibody or portion thereof is labeled.
- 90. (New) The method of claim 89 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.



- 91. (New) The method of claim 90 wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) $^{121}I;$
 - (c) ^{131}I ;
 - (d) 112 In; and
 - (e) ^{99m}Tc.
- 92. (New) A method of treating an immunodeficiency comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues 1 to 285 of SEQ ID NO:2; and
- (b) the amino acid sequence of amino acid residues 72 to 285 of SEQ ID NO:2.
- 93. (New) The method of claim 92 wherein the protein consists of amino acid sequence (a).
- 94. (New) The method of claim 92 wherein the protein consists of amino acid sequence (b).
- 95. (New) The method of claim 92 wherein the antibody or portion thereof is a monoclonal antibody.
- 96. (New) The method of claim 92 wherein the antibody or portion thereof is a polyclonal antibody.
- 97. (New) The method of claim 92 wherein the antibody or portion thereof is a Fab fragment.

- 98. (New) The method of claim 92 wherein the antibody or portion thereof is labeled.
- 99. (New) The method of claim 98 wherein the label is selected from the group consisting of:
 - (a) an enzlyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- (New) The method of claim 99 wherein the label is a radioisotope selected 100. from the group consisting of:
 - ¹²⁵I; (a)
 - ¹²¹I: (b)
 - ¹³¹I; (c)
 - 112 In; and (d)
 - ^{99т}Тс. (e)
- 101. (New) A method of treating an immunodeficiency comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of amino acid residues n to 285 of SEQ ID NO:2, where n is an integer in the range of 2-1\(\)0;
- the amino acid sequence of amino acid residues 1 to m of SEQ ID NO:2, where m is an integer in the range of 274 to 284; and
- the amino acid sequence of amino acid residues n to m of SEQ ID NO:2, where n is an integer in the range of 2-190 and m is an integer in the range of 274-284.
- 102. (New) The method of claim 101 wherein the protein consists of amino acid sequence (a).

- 103. (New) The method of claim 101 wherein the protein consists of amino acid sequence (b).
- 104. (New) The method of claim 101 wherein the protein consists of amino acid sequence (c).
- 105. (New) The method of claim 101 wherein the antibody or portion thereof is a monoclonal antibody.
- 106. (New) The method of claim 101 wherein the antibody or portion thereof is a polyclonal antibody.
- 107. (New) The method of claim 101 wherein the antibody or portion thereof is a Fab fragment.
- 108. (New) The method of claim 101 wherein the antibody or portion thereof is labeled.
- 109. (New) The method of claim 108 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 110. (New) The method of claim 109 wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) $^{121}I;$
 - (c) ^{131}I ;
 - (d) 112 In; and
 - (e) ^{99m}Tc.

- 111. (New) A method of treating an immunodeficiency comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of the amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.
- 112. (New) The method of claim 111 wherein the antibody or portion thereof is a monoclonal antibody.
- 113. (New) The method of claim 111 wherein the antibody or portion thereof is a polyclonal antibody.
- 114. (New) The method of claim 111 wherein the antibody or portion thereof is a Fab fragment.
- 115. (New) The method of claim 111 wherein the antibody or portion thereof is labeled.
- 116. (New) The method of claim 115 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 117. (New) The method of claim \$16\$ wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) $^{121}I;$
 - (c) ¹³¹I;
 - (d) 112In; and
 - (e) ^{99m}Tc.

- 118. (New) A method of treating rheumatoid arthritis comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of the amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.
- 119. (New) The method of claim 118 wherein the antibody or portion thereof is a monoclonal antibody.
- 120. (New) The method of claim 118 wherein the antibody or portion thereof is a polyclonal antibody.
- 121. (New) The method of claim 118 wherein the antibody or portion thereof is a Fab fragment.
- 122. (New) The method of claim 118 wherein the antibody or portion thereof is labeled.
- 123. (New) The method of claim 122 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.

124. (New) The method of claim 123 wherein the label is a radioisotope selected from the group consisting of:

- (a) \\\^{25}I
- (b)
- (c) ^{131}I :
- (d) 112In; and
- (e) ^{99m}Tc.

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- 125. (New) The method of claim 118 wherein the immune system disease or disorder is an autoimmune system disease or disorder.
- 126. (New) The method of claim 118 wherein the immune system disease or disorder is an immunodeficiency.
- 127. (New) The method of claim 118 wherein the immune system disease or disorder is an inflammatory disease or disorder.
- 128. (New) The method of claim 118 wherein the immune system disease or disorder is a leukemia.
- 129. (New) The method of chaim 118 wherein the immune system disease or disorder is a tumor.
 - 130. (New) The method of claim 129 wherein the tumor is metastatic.
- 131. (New) A method of treating an immune system disease or disorder comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of an amino-terminal deletion protein mutant of the full-length protein encoded by the cDNA clone contained in ATCC Deposit Number 97768, wherein said amino-terminal deletion protein mutant excludes up to 190 amino acid residues from the amino terminus of said full-length protein encoded by the cDNA clone contained in ATCC Deposit Number 97768;
- (b) the amino acid sequence of a carboxy-terminal deletion protein mutant of the full-length protein encoded by the cDNA clone contained in ATCC Deposit Number 97768, wherein said carboxy-terminal deletion protein mutant excludes up to 11 amino acid residues from the carboxy terminus of said full-length protein encoded by the cDNA clone contained in ATCC Deposit Number 97768; and

- (c) the amino acid sequence of an amino- and carboxy-terminal deletion protein mutant of the full-length protein encoded by the cDNA clone contained in ATCC Deposit Number 97768, wherein said amino- and carboxy-terminal deletion protein mutant excludes up to 190 amino acid residues from the amino terminus and up to 11 amino acid residues from the carboxy terminus of said said full-length protein encoded by the cDNA clone contained in ATCC Deposit Number 97768.
- 132. (New) The method of claim 131 wherein the protein consists of amino acid sequence (a).
- 133. (New) The method of waim 131 wherein the protein consists of amino acid sequence (b).
- 134. (New) The method of claim 131 wherein the protein consists of amino acid sequence (c).
- 135. (New) The method of claim 131 wherein the antibody or portion thereof is a monoclonal antibody.
- 136. (New) The method of claim 131 wherein the antibody or portion thereof is a polyclonal antibody.
- 137. (New) The method of claim 131 wherein the antibody or portion thereof is a Fab fragment.
- 138. (New) The method of claim 131 wherein the antibody or portion thereof is labeled.

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- 139. (New) The method of claim 138 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 140. (New) The method of claim 139 wherein the label is a radioisotope selected from the group consisting of
 - (a) ^{125}I ;
 - (b) 121 I;
 - (c) $^{131}I;$
 - (d) 112In; and
 - (e) ^{99m}Tc.
- 141. (New) The method of claim 131 wherein the immune system disease or disorder is an autoimmune system disease or disorder.
- 142. (New) The method of claim 135 wherein the autoimmune disease or disorder is rheumatoid arthritis.
- 143. (New) The method of claim 131 wherein the immune system disease or disorder is an immunodeficiency.
- 144. (New) The method of claim 131 wherein the immune system disease or disorder is an inflammatory disease or disorder.
- 145. (New) The method of claim 131 wherein the immune system disease or disorder is a leukemia.
- 146. (New) The method of claim 131 wherein the immune system disease or disorder is a tumor.

- 147. (New) The method of claim 146 wherein the tumor is metastatic.
- 148. (New) A method of inhibiting leukocyte activation or proliferation comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence selected from the group consisting of:

(a) the amino acid-sequence of amino acid residues n to 285 of SEQ ID NO:2, where n is an integer in the range of 2-190;

- (b) the amino acid sequence of amino acid residues 1 to m of SEQ ID NO:2, where m is an integer in the range of 274 to 284; and
- (c) the amino acid sequence of amino acid residues n to m of SEQ ID NO:2, where n is an integer in the range of 2-190 and m is an integer in the range of 274-284.
- 149. (New) The method of claim 148 wherein the protein consists of amino acid sequence (a).
- 150. (New) The method of claim 148 wherein the protein consists of amino acid sequence (b).
- 151. (New) The method of claim 148 wherein the protein consists of amino acid sequence (c).
- 152. (New) The method of claim 148 wherein the antibody or portion thereof is a monoclonal antibody.
- 153. (New) The method of claim 148 wherein the antibody or portion thereof is a polyclonal antibody.
- 154. (New) The method of claim 148 wherein the antibody or portion thereof is a Fab fragment.

- 155. (New) The method of claim 148 wherein the antibody or portion thereof is labeled.
- 156. (New) The method of claim 155 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 157. (New) The method of claim 156 wherein the label is a radioisotope selected from the group consisting of:
 - (a) $^{125}I;$
 - (b) $^{121}I;$
 - (c) $^{131}I;$
 - (d) 112 In; and
 - (e) ^{99m}Tc.
- 158. (New) A method of inhibiting leukocyte activation or proliferation comprising administering to an individual, a therapeutically effective amount of an antibody or portion thereof that specifically binds a protein consisting of an amino acid sequence of amino acid residues 134-285 of SEQ ID NO:2.
- 159. (New) The method of claim 158 wherein the antibody or portion thereof is a monoclonal antibody.
- 160. (New) The method of claim 158 wherein the antibody or portion thereof is a polyclonal antibody.
- 161. (New) The method of claim 158 wherein the antibody or portion thereof is a Fab fragment.

- 162. (New) The method of claim 158 wherein the antibody or portion thereof is labeled.
- 163. (New) The method of claim 162 wherein the label is selected from the group consisting of:
 - (a) an enzyme label;
 - (b) a radioisotope;
 - (c) a fluorescent label; and
 - (d) biotin.
- 164. (New) The method of claim 163 wherein the label is a radioisotope selected from the group consisting of:
 - (a) ^{125}I ;
 - (b) $^{121}I;$
 - (c) $^{131}I;$
 - (d) 112In; and
 - (e) ^{99m}Tc.